Prekindergarten | Early Childhood Indicators of Progress: Minnesota's Early Learning Standards Correlation to *Eureka Math²*®

When the original *Eureka Math*® curriculum was released, it quickly became the most widely used K–5 mathematics curriculum in the country. Now, the Great Minds® teacher–writers have created *Eureka Math²*®, a groundbreaking new curriculum that helps teachers deliver exponentially better math instruction while still providing students with the same deep understanding of and fluency in math. *Eureka Math²* carefully sequences mathematical content to maximize vertical alignment—a principle tested and proven to be essential in students' mastery of math—from prekindergarten through high school.

While this innovative new curriculum includes all the trademark *Eureka Math* aha moments that have been delighting students and teachers for years, it also boasts these exciting new features:

Teachability

Eureka Math² employs streamlined materials that allow teachers to plan more efficiently and focus their energy on delivering high-quality instruction that meets the individual needs of their students. Differentiation suggestions, slide decks, digital interactives, and multiple forms of assessment are just a few of the resources built right into the teacher materials.

Accessibility

Eureka Math² incorporates Universal Design for Learning principles so all learners can access the mathematics and take on challenging math concepts. Student supports are built into the instructional design and are clearly identified in the *Teach* book. Further, the curriculum carries a focus on readability. By eliminating unnecessary words and using simple, clear sentences, the *Eureka Math²* teacher–writers have created one of the most readable mathematics curricula on the market. The curriculum's readability and accessibility help all students see themselves as mathematical thinkers and doers who are fully capable of owning their mathematics learning.

Digital Engagement

The digital elements of *Eureka Math²* add to students' engagement with the math. The curriculum provides teachers with digital slides for select lessons. In addition, each grade level includes wordless videos that spark students' interest and curiosity. Students at all levels work through mathematical explorations that help lead to their own mathematical discoveries. Videos provide opportunities for students to wonder, explore, and make sense of mathematics, which contributes to the development of a strong, positive mathematical identity.

Standards for Mathematical Practice	Aligned Components of *Eureka Math²*
MP.1 Make sense of problems and persevere in solving them.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.2 Reason abstractly and quantitatively.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.3 Construct viable arguments and critique the reasoning of others.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.4 Model with mathematics.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.5 Use appropriate tools strategically.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.6 Attend to precision.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.7 Look for and make use of structure.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.
MP.8 Look for and express regularity in repeated reasoning.	Lessons in every module engage students in mathematical practices. These are indicated in margin notes included with every lesson.

Number Knowledge

M1 Rote counting: The child attends to sequences and use of number words, with or without items, sets, or numerals and without recognizing the link to quantity.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M1.14 Recites number word aloud, forward, up to at least 29 (allow for some mistakes), without objects	*This standard is partially addressed by Fluency Anytime activities suggested for each module.*
M1.15 Recites number words aloud, backward, down from at least 10 without objects	*This standard is addressed by Fluency Anytime activities suggested for module 5.*
M1.16 Is able to name the next number word for numbers up to 9	*This standard is fully addressed by Fluency Anytime activities suggested for each module.*
M1.17 Reads and writes numerals from 0 to 10, with some reversals possible	PK M1 Lesson 10: Written Numbers PK M1 Lesson 11: Match Game PK M1 Lesson 12: Count the Math Way PK M1 Lesson 13: Rosetta Stone PK M1 Lesson 14: Rice Scoops PK M1 Lesson 16: Number Recipe PK M1 Lesson 17: Bean Bag Toss PK M1 Lesson 21: How Many Ways? PK M1 Lesson 22: Animal Sort PK M1 Lesson 25: More Written Numbers

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M1.17 *continued*	PK M1 Lesson 29: Match Game
	PK M1 Lesson 31: Match or No Match?
	PK M1 Lesson 32: Make It Match
	PK M1 Lesson 34: Culminating Activity
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic B: Project: Plan a Celebration

Number Knowledge

M2 Meaningful Counting: The child uses counting to identify how many items are in a set, using one to one correspondence; uses number words to identify "how many."

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M2.3 Demonstrates and uses 1:1 correspondence with sets larger than four	PK M1 Lesson 7: Animal Count
	PK M1 Lesson 8: Let's Count!
	PK M1 Lesson 9: How Many?
	PK M1 Lesson 15: Let's Count!
	PK M1 Lesson 18: Forest Path Game
	PK M1 Lesson 24: Mystery Eggs
	PK M1 Lesson 28: Counting with Puppet
	PK M1 Lesson 29: Match Game
	PK M1 Lesson 30: Let's Count and Record!
	PK M1 Lesson 34: Culminating Activity

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	**Aligned Components of *Eureka Math²***
M2.3 *continued*	PK M2 Lesson 17: Let's Count and Record!
	PK M3 Lesson 7: Do You See 5?
	PK M3 Lesson 9: Decompose 6 and 7
	PK M3 Lesson 10: Decompose 8 and 9
	PK M3 Lesson 11: Decompose 10
	PK M3 Lesson 17: Let's Count and Record!
	PK M4 Lesson 17: Let's Count and Compare!
	PK M5 Lesson 24: Let's Count and Record!
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic B: Project: Plan a Celebration
	PK M6 Topic C: Project: Care for Our Space

Number Knowledge

M3 Cardinality: The child associates each of one or more number words to a unique and exact quantity, and knows that the final number word used when counting out an item set represents the exact number of items in the set.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	**Aligned Components of *Eureka Math²***
M3.5 Gives 5 or more items correctly and consistently when asked	PK M1 Lesson 8: Let's Count!
	PK M1 Lesson 15: Let's Count!
	PK M1 Topic D: Count Out a Set of Up to 5 Objects
	PK M1 Lesson 30: Let's Count and Record!
	PK M1 Lesson 31: Match or No Match?

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M3.5 *continued*	PK M1 Lesson 32: Make It Match
	PK M1 Lesson 33: Dinosaur World
	PK M2 Lesson 17: Let's Count and Record!
	PK M3 Lesson 8: Make Your Own Rekenrek!
	PK M3 Lesson 9: Decompose 6 and 7
	PK M3 Lesson 10: Decompose 8 and 9
	PK M3 Lesson 11: Decompose 10
	PK M3 Lesson 13: Number Stairs
	PK M3 Lesson 17: Let's Count and Record!
	PK M4 Lesson 17: Let's Count and Compare!
	PK M5 Lesson 24: Let's Count and Record!
	PK M6 Topic A: Project: Create a Business
	PK M6 Topic B: Project: Plan a Celebration
	PK M6 Topic C: Project: Care for Our Space

Number Knowledge

M4 Ordinality: The child matches symbols (digits or numerals) to a position in a sequence.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M4.3 Recognizes that a number can be used to represent a position in a sequence	PK M5 Lesson 21: Create Patterns PK M6 Topic B: Project: Plan a Celebration

Number Knowledge

M5 Comparing numbers and quantities: The child uses organizing strategies to know how many objects they have.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M5.7 Verbally estimates quantities without counting, although inconsistently and allowing for mistakes	PK M4 Topic D: Compare Sets PK M4 Lesson 18: How Many Crayons? PK M4 Lesson 19: Compare Groups PK M4 Lesson 20: Explore Area PK M4 Lesson 21: How Many Scoops? PK M6 Topic A: Project: Create a Business PK M6 Topic B: Project: Plan a Celebration PK M6 Topic C: Project: Care for Our Space *Supplemental material is necessary to address estimating quantities.*

Number Knowledge

M6 Relation and operations: The child can create a set or subset based on a rule, can combine or separate sets, and recognize the amount of items in a set does not change when the set arrangement changes.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M6.2 States the number that comes next or before up to 5	PK M1 Lesson 10: Written Numbers PK M1 Lesson 14: Rice Scoops PK M3 Lesson 12: 1 More PK M5 Topic A: Use the Count Sequence to Add and Subtract 1

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M6.3 Understands that a quantity changes (increases or decreases) when a set of objects is added to/subtracted from (respectively)	PK M5 Topic A: Use the Count Sequence to Add and Subtract 1 PK M5 Topic B: Represent Addition Stories PK M5 Topic D: Represent Subtraction Stories PK M6 Topic C: Project: Care for Our Space
M6.4 States the number that comes next or before up to 10	PK M3 Lesson 12: 1 More PK M3 Lesson 13: Number Stairs PK M3 Lesson 14: Number Detective PK M5 Topic A: Use the Count Sequence to Add and Subtract 1
M6.5 Understands that the quantity of a set of (more than 4) objects has been changed	PK M5 Lesson 3: 1 More, 1 Less PK M5 Lesson 4: 1 More, 1 Less the Math Way PK M5 Lesson 5: Market Math PK M5 Topic B: Represent Addition Stories PK M5 Topic D: Represent Subtraction Stories PK M6 Topic C: Project: Care for Our Space
M6.6 Without recounting, can add one more to a set, even when the set isn't visible after counting	PK M3 Lesson 12: 1 More PK M3 Lesson 13: Number Stairs PK M3 Lesson 15: Count on the Rekenrek PK M5 Lesson 3: 1 More, 1 Less PK M5 Lesson 4: 1 More, 1 Less the Math Way PK M5 Lesson 5: Market Math PK M5 Lesson 9: Mental Movies: Addition

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M6.7 Demonstrates ability to combine and separate items within a small set without changing the total number in the set (up to 5)	PK M3 Lesson 3: Decompose 3 PK M3 Lesson 4: Decompose 4 PK M3 Lesson 5: Decompose 5 PK M3 Lesson 6: 5-Piece Puzzles PK M5 Topic C: Compose and Decompose Numbers in More than One Way
M6.8 Uses simple physical strategies to combine or separate sets	PK M3 Lesson 3: Decompose 3 PK M3 Lesson 4: Decompose 4 PK M3 Lesson 5: Decompose 5 PK M3 Lesson 6: 5-Piece Puzzles PK M3 Lesson 9: Decompose 6 and 7 PK M3 Lesson 10: Decompose 8 and 9 PK M3 Lesson 11: Decompose 10 PK M5 Lesson 5: Market Math PK M5 Topic B: Represent Addition Stories PK M5 Topic C: Compose and Decompose Numbers in More than One Way PK M5 Topic D: Represent Subtraction Stories PK M6 Topic C: Project: Care for Our Space

Measurement

M7 Measurement: Child recognizes and makes comparisons of measurable attributes (length, height, width, area, volume, physical distance, time duration).

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M7.9 Compares and orders more than two items in some way	PK M4 Lesson 8: Compare by Using Numbers PK M4 Lesson 9: Straw Line Up PK M4 Lesson 15: Trains
M7.10 Uses comparison vocabulary (longer/shorter, taller/shorter, farthest/closest)	PK M4 Topic A: Describe Size PK M4 Topic B: Compare Heights and Lengths PK M4 Topic C: Compare Weights PK M4 Lesson 21: How Many Scoops? PK M4 Lesson 22: Compare Attributes PK M6 Topic C: Project: Care for Our Space

Patterns

M8 Repeating patterns: The child can identify, create, and describe sequences in objects, colors, or numbers with sequences that increase, decrease, or grow in complexity.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M8.8 Uses words or pictures to describe a simple pattern	PK M1 Lesson 10: Written Numbers PK M1 Lesson 25: More Written Numbers PK M1 Lesson 27: 5-Groups PK M3 Lesson 12: 1 More

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M8.8 *continued*	PK M3 Lesson 13: Number Stairs PK M3 Topic D: Use Structure to Analyze Patterns PK M5 Lesson 1: Bears on Stairs PK M5 Lesson 2: 1 Less PK M5 Lesson 21: Create Patterns PK M5 Lesson 22: Music and Movement PK M5 Lesson 23: Patterns Everywhere PK M6 Topic B: Project: Plan a Celebration
M8.9 Applies a simple pattern rule to different materials or mode (sound, body, color, size, movement)	PK M3 Lesson 20: Find the Missing Piece PK M3 Lesson 21: A Story in Strings PK M5 Lesson 21: Create Patterns PK M5 Lesson 22: Music and Movement PK M5 Lesson 23: Patterns Everywhere
M8.10 Copies complex patterns with same materials	PK M5 Lesson 21: Create Patterns PK M5 Lesson 22: Music and Movement PK M5 Lesson 23: Patterns Everywhere
M8.11 Applies a complex pattern rule using different materials or mode (sound, body, color, size, movement)	PK M3 Lesson 22: Red Light, Green Light! PK M5 Lesson 21: Create Patterns PK M5 Lesson 22: Music and Movement PK M5 Lesson 23: Patterns Everywhere

Geometry and Spatial Thinking

M9 Knowledge and visualization of shapes: The child recognizes shapes, can describe 2 dimensional (2D) and 3 dimensional (3D) shapes and manipulate shapes with purpose.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M9.5 Begins to describe the features (attributes) that define 2D and 3D shapes, including sides and corners	PK M2 Topic B: Analyze and Name Two-Dimensional Shapes PK M2 Lesson 11: Build Shapes PK M2 Lesson 12: Build My Shape PK M2 Lesson 13: Shape Towers PK M2 Lesson 14: Puppet's Picture PK M2 Lesson 15: Roll, Slide, or Stack PK M2 Lesson 16: Pyramids!
M9.6 Puts together (composes) and takes apart (decomposes) shapes	PK M2 Lesson 9: Shape Pictures PK M2 Lesson 10: Shape Puzzles PK M2 Lesson 13: Shape Towers PK M2 Lesson 14: Puppet's Picture PK M2 Lesson 16: Pyramids! PK M3 Lesson 1: How Many Parts? PK M3 Lesson 2: Bunny Puzzles PK M6 Topic B: Project: Plan a Celebration
M9.7 Composes and decomposes shapes/constructions with increasing complexity	PK M2 Lesson 10: Shape Puzzles PK M2 Lesson 16: Pyramids!

Geometry and Spatial Thinking

M10 Transformations and symmetry: The child can locate and manipulate shapes in space.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M10.8 Puts together (composes) and takes apart (decomposes) shapes to create new shapes	PK M2 Lesson 9: Shape Pictures PK M2 Lesson 10: Shape Puzzles PK M2 Lesson 13: Shape Towers PK M2 Lesson 14: Puppet's Picture PK M2 Lesson 16: Pyramids! PK M3 Lesson 1: How Many Parts? PK M3 Lesson 2: Bunny Puzzles PK M6 Topic B: Project: Plan a Celebration
M10.9 Recognizes and creates shapes that have symmetry	*Supplemental material is necessary to address this standard.*
M10.10 Shows awareness that an object needs to be rotated, flipped, or turned before trying to fit the object into a hole or puzzle	PK M2 Lesson 9: Shape Pictures PK M2 Lesson 10: Shape Puzzles PK M2 Lesson 13: Shape Towers PK M2 Lesson 14: Puppet's Picture PK M2 Lesson 16: Pyramids! PK M3 Lesson 1: How Many Parts? PK M3 Lesson 2: Bunny Puzzles

Geometry and Spatial Thinking

M11 Location, spatial relationships and landmark use: The child recognizes where a person or object is in relation to other people or objects.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M11.6 Recognizes and describes position of objects in space with greater accuracy	PK M2 Topic A: Spatial Relations PK M2 Lesson 8: Shape Games
M11.7 Draws a simple map	PK M2 Lesson 3: Build a Map *Supplemental material is necessary to fully address this standard.*
M11.8 Matches 2 dimensional (2D) map with surrounding 3 dimensional (3D) layout Include this: (involves transformation, scale, dimension, and orientation distance)	PK M2 Lesson 3: Build a Map *Supplemental material is necessary to fully address this standard.*

Data Analysis

M12 Sorting: The child recognizes that objects can be sorted by attributes.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M12.7 Describes the attribute used for sorting or comparing	PK M1 Topic A: Use Attributes to Match and Sort PK M1 Topic E: Sort to Decompose PK M1 Lesson 34: Culminating Activity PK M6 Topic A: Project: Create a Business

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M12.8 While sorting, can make a shift to change the attribute being used to sort and describe the new sorting attribute	PK M1 Lesson 5: Sorting Bags PK M1 Topic E: Sort to Decompose PK M1 Lesson 34: Culminating Activity PK M6 Topic A: Project: Create a Business

Data Analysis

M13 Collects, classifies, and organizes information: The child collects, classifies and organizes data based on distinguishing characteristics.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M13.3 Participates as group member in the collection of data that is put on a chart or graph	PK M6 Topic A: Project: Create a Business PK M6 Topic B: Project: Plan a Celebration PK M6 Topic C: Project: Care for Our Space
M13.4 Sorts information by one or more attribute	PK M4 Lesson 13: Collect Data and Compare PK M4 Lesson 18: How Many Crayons? PK M4 Lesson 19: Compare Groups PK M6 Topic A: Project: Create a Business PK M6 Topic B: Project: Plan a Celebration PK M6 Topic C: Project: Care for Our Space

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M13.5 Independently collects data to put on a chart or graph	*Supplemental material is necessary to address this standard.*

Data Analysis

M14 Describes data: The child can describe data by using data sets to solve problems or by asking questions.

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M14.3 Uses language to compare data	PK M4 Lesson 4: How Much Juice? PK M4 Lesson 13: Collect Data and Compare PK M4 Lesson 18: How Many Crayons? PK M4 Lesson 19: Compare Groups PK M6 Topic A: Project: Create a Business PK M6 Topic B: Project: Plan a Celebration PK M6 Topic C: Project: Care for Our Space
M14.4 Uses data to answer questions and solve problems	PK M4 Lesson 4: How Much Juice? PK M4 Lesson 13: Collect Data and Compare PK M4 Lesson 18: How Many Crayons? PK M4 Lesson 19: Compare Groups PK M6 Topic A: Project: Create a Business PK M6 Topic B: Project: Plan a Celebration PK M6 Topic C: Project: Care for Our Space

Early Childhood Indicators of Progress: Minnesota's Early Learning Standards	Aligned Components of *Eureka Math²*
M14.5 Discusses, compares and makes sense of collected data	PK M4 Lesson 4: How Much Juice? PK M4 Lesson 13: Collect Data and Compare PK M4 Lesson 18: How Many Crayons? PK M4 Lesson 19: Compare Groups PK M6 Topic A: Project: Create a Business PK M6 Topic B: Project: Plan a Celebration PK M6 Topic C: Project: Care for Our Space